

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/07995

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/14 H04M15/00 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 512 761 B1 (BORELLA MICHAEL S ET AL) 28 January 2003 (2003-01-28) column 14, line 12 - line 19 abstract	1,4,21, 22,26,29
A	--- US 5 995 508 A (MORITA YOSHIO ET AL) 30 November 1999 (1999-11-30) page 3, line 55 - line 60 column 6, line 27 - line 31 abstract	1-31
A	--- US 5 142 653 A (SCHEFTS HORST) 25 August 1992 (1992-08-25) claims 1,4	1-31
E	--- US 6 680 946 B1 (ARUTAKI AKIRA ET AL) 20 January 2004 (2004-01-20) column 8, line 28 - line 52 -----	1,4,21, 22,26,29

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## ° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

25 February 2004

Date of mailing of the international search report

11.03.2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

LISBETH ANDERSSON/MN

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/ 03/07995

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6512761	B1	28-01-2003	NONE	
US 5995508	A	30-11-1999	JP 10032582 A	03-02-1998
US 5142653	A	25-08-1992	EP 0470283 A1	12-02-1992
			AT 149070 T	15-03-1997
			CA 2048459 A1	09-02-1992
			DE 59010651 D1	27-03-1997
			JP 3207879 B2	10-09-2001
			JP 4234246 A	21-08-1992
US 6680946	B1	20-01-2004	JP 3233208 B2	26-11-2001
			JP 11313081 A	09-11-1999